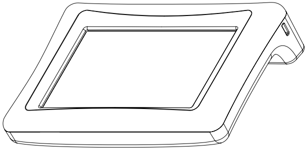
庞伯特®E 触控蓝牙智能屏

E-PAD 使用指南

Pongbot®Smart Touch Screen E-PAD Operation Manual

型号 (Model)：OMNI 版
版本 (Version)：V1.0



PONGBOT
上海创屹科技有限公司
Shanghai Pongbot Co.,Ltd

如您在使用过程中，遇到任何问题，均可登录官网或来电进行咨询！

If you encounter any problems during use, please call customer service or consult the official website.

创屹官方网址 (Website)：**www.pong-bot.com**
售后服务热线 (Customer Service)：**400-190-6688**

扫码观看安装视频

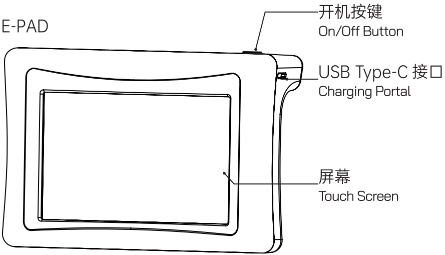
Scan and watch
Installation Instruction

关注创屹微信公众号
了解最新产品资讯

Scan and follow our
official Wechat account

产品构成 (Product Info)

❶ E-PAD


开机按键
On/Off Button
USB Type-C 接口
Charging Portal
屏幕
Touch Screen

❷ USB 线
Power Cable

产品参数 (Product Parameter)

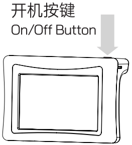
规 格 Specification	**详细参数** Details
屏幕 Screen	5.0 寸，电容触摸屏 139.6 x 69.7mm Touch Screen
分辨率 Resolution	800×480 DPI
锂电池容量 Battery Capacity	2100 mAh
充电接口 Charging Portal	USB Type-C
通信 Communication	低功耗蓝牙 / BLE5.0 标准 Standard
尺寸 Size	154.3mm × 102.2mm × 39.2mm

快速使用指南 (Quick Set-up)

① **E-PAD 开机** Turn on device

开机：短按开机按键，至屏幕亮起

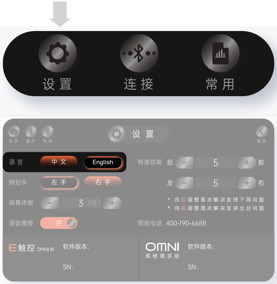
Press "On/Off Button" briefly until screen lights up


开机按键
On/Off Button

② **系统语言设置** System language

如需切换语言（中文或英文），于 E-PAD 主页面点击 “设置”，进入设置页面，选择所需语言即可

If language selection is needed, click "Settings" from home page and choose between Chinese and English


设 置
连 接
常 用
主 页
蓝 牙
电 池
返 回

设 置

语 言 中 文 English

持拍手 左 手 右 手

屏幕休眠 3（分）

语音播报 开

校准功能 后 5 前

左 5 右

* 向后调整落点解决发球下网问题

* 向前调整落点解决发球出台问题

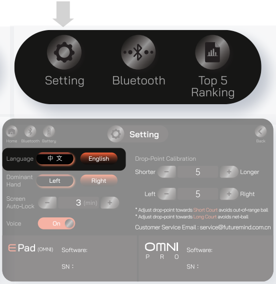
帮助电话 400-190-6688

E触控 OMNI 版 软件版本：

SN:

OMNI 黑橙尊享版 软件版本：

SN:


Setting
Bluetooth
Top 5 Ranking
Home
Bluetooth
Battery
Back

Setting

Language 中 文 English

Dominant Hand Left Right

Screen Auto-Lock 3 (min)

Voice On

Drop-Point Calibration

Shorter 5 Longer

Left 5 Right

* Adjust drop-point towards Short Court avoids out-of-range ball

* Adjust drop-point towards Long Court avoids net-ball

Customer Service Email : service@futuremind.com.cn

EPad (OMNI) Software:

SN :

OMNI PRO Software:

SN :

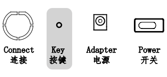
③ E-PAD 与机器人配对 Connect E-PAD to Serving Robot

（配对只需进行 1 次，配对成功后，以后使用无需配对）

Once E-PAD is successfully connected to robot, there is no need to repeat this procedure for further uses

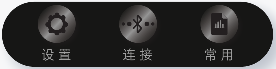
3.1 连续按 2 次 "Key" 按键(位于机器人电源旁边)，等待机器人指示灯呈黄色快闪，此时机器人进入配对模式

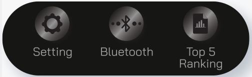
Double click "Key Button" on the robot (located next to "Power Button"), the LED indicators at the front of robot should flash in yellow, this suggests that the robot is ready to connect

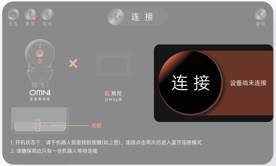

Connect
连接
Key
按键
Adapter
电源
Power
开关

3.2 E-PAD 主页面点击"连接"，进入连接页面，点击"连接"，E-PAD 进入配对模式

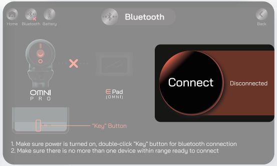
Click "Bluetooth" from home page, then click "Connect"




Setting
Bluetooth
Top 5
Ranking


主 页
蓝 牙
电 池
连 接
返 回
OMNI
黑橙尊享版
E 触控
OMNI版
连 接
设备尚未连接
按键

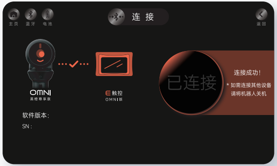
1. 开机状态下，请于机器人侧面找到按键(如上图)，连续点击两次后进入蓝牙连接模式
2. 请确保周边只有一台机器人等待连接


Home
Bluetooth
Battery
Bluetooth
Back
OMNI
P R O
E Pad
(OMNI)
Connect
Disconnected
"Key" Button

1. Make sure power is turned on, double-click "Key" button for bluetooth connection
2. Make sure there is no more than one device within range ready to connect

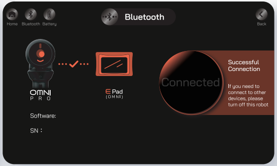
3.3 配对成功，连接页面显示设备已连接

Once E-PAD is successfully connected to robot, the result can be shown as below


主 页
蓝 牙
电 池
连 接
返 回
OMNI
黑橙尊享版
E 触控
OMNI版
已连接
软件版本：
SN：

连接成功！

* 如需连接其他设备请将机器人关机

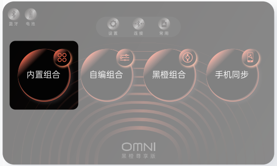

Home
Bluetooth
Battery
Bluetooth
Back
OMNI
P R O
E Pad
(OMNI)
Connected
Software:
SN：

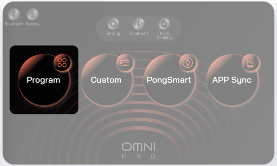
Successful Connection

If you need to connect to other devices, please turn off this robot

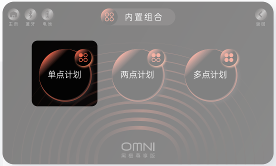
④ 发球(例)：内置组合 - 正手攻球

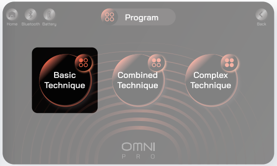
Drill Example: Program - Basic Technique - Forehand Drive


蓝 牙
电 池
设 置
连 接
常 用
内置组合
自编组合
黑橙组合
手机同步
OMNI
黑橙尊享版

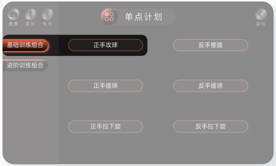

Bluetooth
Battery
Setting
Bluetooth
Top 5 Ranking
Program
Custom
PongSmart
APP Sync
OMNI
P R O

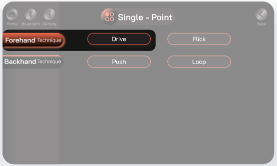
4.1 点击"内置组合" Select "Program"


主页
蓝牙
电池
内置组合
返回
单点计划
两点计划
多点计划
OMNI
黑橙尊享版

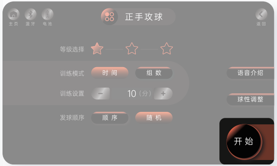

Home
Bluetooth
Battery
Program
Back
Basic Technique
Combined Technique
Complex Technique
OMNI
PRO

4.2 点击"单点计划" Select "Basic Technique"

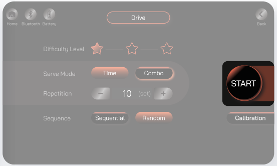

主页
蓝牙
电池
单点计划
返回
基础训练组合
进阶训练组合
正手攻球
反手推拨
正手搓球
反手搓球
正手拉下旋
反手拉下旋


Home
Bluetooth
Battery
Single - Point
Back
Forehand Technique
Backhand Technique
Drive
Flick
Push
Loop

4.3 点击"基础训练组合"- "正手攻球" Select "Forehand Technique"-"Drive"


主页
蓝牙
电池
正手攻球
返回
语音介绍
球性调整
开始

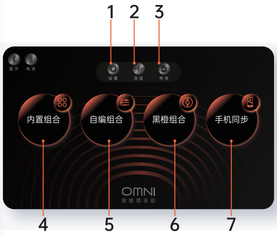
等级选择 ★ ☆ ☆
训练模式 时间 组数
训练设置 10（分）
发球顺序 顺序 随机


Home
Bluetooth
Battery
Drive
Back
START
Calibration

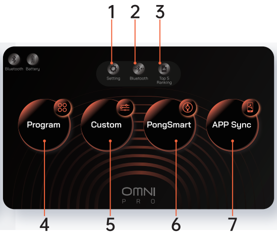
Difficulty Level ★ ☆ ☆
Serve Mode Time Combo
Repetition 10 (set)
Sequence Sequential Random

4.4 使用默认的训练设置，点击"开始"即可开始练习 Click "START" and begin exercising

使用详情 (Features)

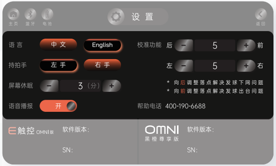

1
2
3
蓝牙
电池
设置
连接
常用
内置组合
自编组合
黑橙组合
手机同步
OMNI
黑橙尊享版
4
5
6
7

主 页

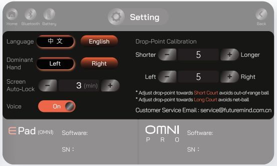

1
2
3
Bluetooth
Battery
Setting
Bluetooth
Top 5 Ranking
Program
Custom
PongSmart
APP Sync
OMNI
PRO
4
5
6
7

Home Page

❶ 设置 Settings


主页
蓝牙
电池
设 置
返回
E触控 OMNI版
OMNI
黑橙尊享版

语言 中文 English
持拍手 左手 右手
屏幕休眠 3（分）
语音播报 开
校准功能 后 5 前
左 5 右
* 向后调整落点解决发球下网问题
* 向前调整落点解决发球出台问题
帮助电话 400-190-6688
软件版本:
SN:
软件版本:
SN:


Home
Bluetooth
Battery
Setting
Back
EPad (OMNI)
OMNI
PRO

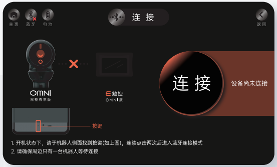
Language 中文 English
Dominant Hand Left Right
Screen Auto-Lock 3 (min)
Voice On
Drop-Point Calibration
Shorter 5 Longer
Left 5 Right
* Adjust drop-point towards Short Court avoids out-of-range ball
* Adjust drop-point towards Long Court avoids net-ball
Customer Service Email : service@futuremind.com.cn
Software:
SN :
Software:
SN :

- 语言
- 持拍手
- 屏幕休眠
- 语音播报
- 校准功能：
远近、左右调整，对所有的内置球均生效

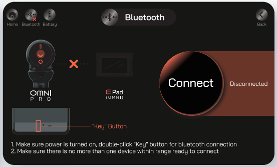
- Language
- Dominant Hand
- Screen Auto-Lock
- Voice
- Drop-Point Calibration
(applicable to all programmed drills)

② **连接** 用于遥控器与机器人配对

BLE Connection (To connect E-PAD to robot)


主页
蓝牙
电池
连 接
返回
OMNI
黑橙尊享版
E触控
OMNI版
连 接
设备尚未连接
按键

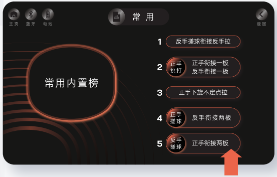
1. 开机状态下，请于机器人侧面找到按键(如上图)，连续点击两次后进入蓝牙连接模式
2. 请确保周边只有一台机器人等待连接


Home
Bluetooth
Battery
Bluetooth
Back
OMNI
PRO
E Pad
(OMNI)
Connect
Disconnected
"Key" Button

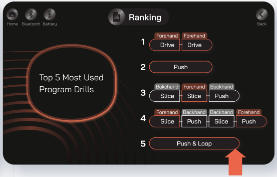
1. Make sure power is turned on, double-click "Key" button for bluetooth connection
2. Make sure there is no more than one device within range ready to connect

③ **常用** 常用的内置组合训练

Top 5 Most Used Program Drills


主页
蓝牙
电池
常 用
返回
常用内置榜
1
反手搓球衔接反手拉
2
正手挑打
正手衔接一板
反手衔接一板
3
正手下旋不定点拉
4
正手搓球
反手衔接两板
5
反手搓球
正手衔接两板

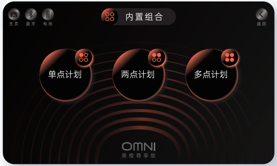
可以直接点击组合，快速开始该内置球


Home
Bluetooth
Battery
Ranking
Back
Top 5 Most Used Program Drills
1
Forehand Drive
Forehand Drive
2
Push
3
Bakchand Slice
Forehand Slice
Backhand Push
4
Forehand Slice
Backhand Push
Backhand Slice
Forehand Push
5
Push & Loop

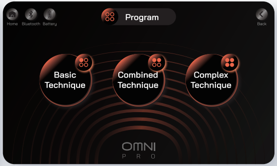
Select a drill and quickly start this exercise

④ 4.1 **内置组合**

Program Drills


主页
蓝牙
电池
内置组合
返回
单点计划
两点计划
多点计划
OMNI
黑橙尊享版

单点计划，两点计划，多点计划


Home
Bluetooth
Battery
Program
Back
Basic Technique
Combined Technique
Complex Technique
OMNI
PRO

Basic, Combined and Complex Technique

于背面继续 ➡

安全信息 Safety Information

在使用和操作设备前，为确保设备性能最佳，并避免出现危险或非法情况，请查阅并遵循所有的安全信息

To avoid danger and illegality, please carefully read and follow all of the below-mentioned safety information prior to installation and utilization of the device

操作与安全 Safety Instructions

为了防止可能的身体疲劳，请勿长时间使用锻炼

- 请在温度 -10℃ ~ 45℃ 范围内使用本设备，并在此温度范围内存放设备及其配件。当环境温度过高或过低时，可能会引起设备故障
- 请勿将设备暴露在高温或发热设备的周围，如取暖器、微波炉、烤箱或热水器等
- 使用设备时，电源插座应安装在设备附近并应易于触及
- 当设备不使用时，请断开电源适配器与设备的连接并从电源插座上拔掉电源
- 使用未经认可或不兼容的电源适配器，可能引发火灾、爆炸、设备损坏或其他危险
- 只能使用设备制造商认可且与此型号设备配套的配件。如果使用其他类型的配件，可能违反本国设备保修条款及相关规定，并可能导致安全事故。如需获取认可的配件，请与创屹科技客户服务中心联系
- 使用非授权第三方软件升级设备固件和系统，可能存在设备无法使用或者泄漏您个人信息等安全风险。建议您使用官方 APP 进行升级

To avoid physical fatigue, please do not exercise long-termly

- Please use and store the device and its accessories under the environment of -10℃ ~ 45℃ . When the temperature is too high or low, an error might occur
- Please do not expose device to surroundings of other high-temperature devices, including heater, microwave, oven, water heater, etc.
- During use, the power outlet should be close to the device and within reach
- When not in use, please disconnect the power adapter from the device and remove the power plug from the outlet
- Be aware that uncertified or incompatible power adapter might cause fire, explosion and other potential danger
- Please only use accessories that are certified by the device manufacturer or corollary equipment of the device. Any other type of accessories might result in violation of national warranty and related regulations that could cause safety incidents. Please contact Pongbot's Customer Service Center for certified accessories
- Use of uncertified, third-party software during firmware and system update might result in dysfunctional device or leakage of personal information. To upgrade, use of official APP is highly recommended

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☎ +86 4001906688
✉ marketing@pong-bot.com
www.pong-bot.com

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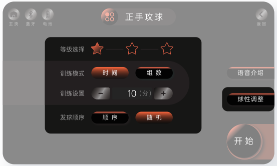
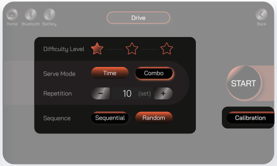
Products (including but not limited to color, size, weight, etc.) shall prevail in kind.

4.2 内置组合训练设置


主页
蓝牙
电池
正手攻球
返回
等级选择
训练模式
时间
组数
训练设置
10 (分)
发球顺序
顺序
随机
语音介绍
球性调整
开始

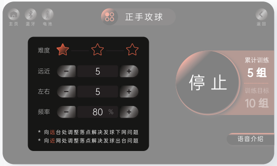
- 等级选择：1 星，2 星或 3 星
- 训练模式及训练设置：设置“时间”或“组数”
- 发球顺序：选择“顺序”或“随机”

Program Drill Serve-Settings


Home
Bluetooth
Battery
Drive
Back
Difficulty Level
Serve Mode
Time
Combo
Repetition
10 (set)
Sequence
Sequential
Random
START
Calibration

- Select difficulty level
- Choose serve mode between "Time" and "Combo", set repetitions according to need
- Choose a serve sequence

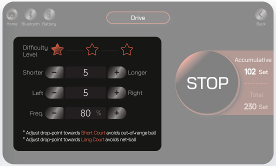
4.2.2 内置组合训练中


主页
蓝牙
电池
正手攻球
返回
难度
远近
5
左右
5
频率
80 %
停止
累计训练
5 组
训练目标
10 组
语音介绍

* 向远台处调整落点解决发球下网问题
* 向近网处调整落点解决发球出台问题

训练开始后，训练中也可实时调整难度星级、远近、左右、频率

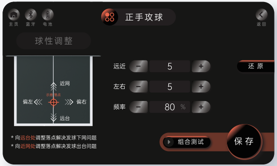
Program Drills in Process


Home
Bluetooth
Battery
Drive
Back
Difficulty Level
Shorter
5
Longer
Left
5
Right
Freq.
80 %
STOP
Accumulative
102 Set
Total
230 Set

* Adjust drop-point towards Short Court avoids out-of-range ball
* Adjust drop-point towards Long Court avoids net-ball

Difficulty level, landing-point and frequency can be adjusted according to needs even during training

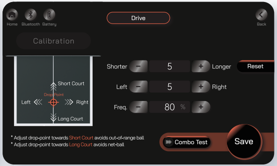
4.2.1 内置组合球性调整


主页
蓝牙
电池
正手攻球
返回
球性调整
近网
示意落点
偏左
偏右
远台
远近
5
左右
5
频率
80 %
还原
组合测试
保存

* 向远台处调整落点解决发球下网问题
* 向近网处调整落点解决发球出台问题

- 对整个内置组合进行设置远近、左右、频率偏移调整后点击“保存”进入训练设置
- 点击“开始”，进行内置组合发球

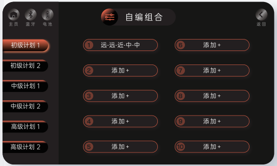
Calibration


Home
Bluetooth
Battery
Drive
Back
Calibration
Short Court
Drop Point
Left
Right
Long Court
Shorter
5
Longer
Reset
Left
5
Right
Freq.
80 %
Combo Test
Save

* Adjust drop-point towards Short Court avoids out-of-range ball
* Adjust drop-point towards Long Court avoids net-ball

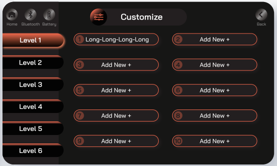
Here you may calibrate all of the landing-points throughout this drill according to needs, click "Save" to return to the previous page where you may start the drill

❺ 自编组合


主页
蓝牙
电池
自编组合
返回
初级计划 1
初级计划 2
中级计划 1
中级计划 2
高级计划 1
高级计划 2
① 远-远-近-中-中
② 添加+
③ 添加+
④ 添加+
⑤ 添加+
⑥ 添加+
⑦ 添加+
⑧ 添加+
⑨ 添加+
⑩ 添加+

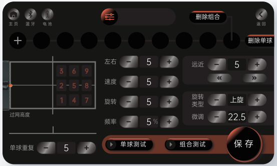
支持最大 60 组自编组合

Customized Drills


Home
Bluetooth
Battery
Customize
Back
Level 1
Level 2
Level 3
Level 4
Level 5
Level 6
① Long-Long-Long-Long
② Add New +
③ Add New +
④ Add New +
⑤ Add New +
⑥ Add New +
⑦ Add New +
⑧ Add New +
⑨ Add New +
⑩ Add New +

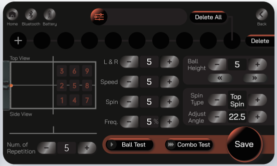
Supports a maximum of 60 sets of customized drills

5.1 添加自编组合


主页
蓝牙
电池
删除组合
返回
删除单球
过网高度
左右 5
速度 5
旋转 5
频率 5 %
远近 5
旋转类型 上旋
微调 22.5
单球重复 5
单球测试
组合测试
保 存

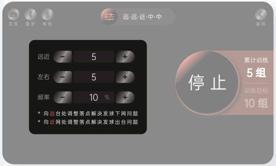
- 于自编组合列表页点击“添加 + ”后，进入此界面
- 可对单球参数进行调整
- 点击 “保存” 新添加组合后，进入发球设置，点击“开始”即可体验新增组合

Create New Customized Drills


Home
Bluetooth
Battery
Delete All
Back
Delete
Top View
Side View
L & R 5
Speed 5
Spin 5
Freq. 5 %
Ball Height 5
Spin Type Top Spin
Adjust Angle 22.5
Num. of Repetition 5
Ball Test
Combo Test
Save

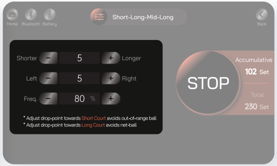
- To create a new customized drill select "Add New +"
- Here you may customize each and every single ball within this drill according to need
- Click "Save", then you may find this drill on your list of customized drills

5.3 自编组合训练中


主页
蓝牙
电池
远-远-近-中-中
返回
远近 5
左右 5
频率 10 %
* 向远台处调整落点解决发球下网问题
* 向近网处调整落点解决发球出台问题
停 止
累计训练
5 组
训练目标
10 组

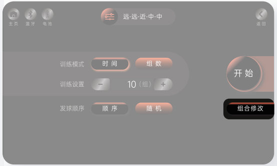
点击开始后，训练中也可实时调整远近、左右、频率

Customized Drills in Process


Home
Bluetooth
Battery
Short-Long-Mid-Long
Back
Shorter 5 Longer
Left 5 Right
Freq. 80 %
* Adjust drop-point towards Short Court avoids out-of-range ball
* Adjust drop-point towards Long Court avoids net-ball
STOP
Accumulative
102 Set
Total
230 Set

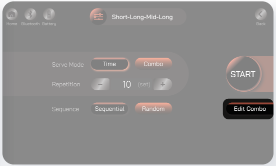
Landing-point and frequency can be adjusted according to needs even during training

5.2 自编组合修改


主页
蓝牙
电池
远-远-近-中-中
返回
训练模式 时 间 组 数
训练设置 10（组）
发球顺序 顺 序 随 机
开 始
组合修改

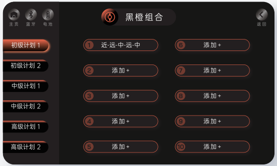
进入发球设置界面后，点击 “组合修改”即可编辑或修改当前组合

Adjust Customized Drill Settings


Home
Bluetooth
Battery
Short-Long-Mid-Long
Back
Serve Mode Time Combo
Repetition 10 (set)
Sequence Sequential Random
START
Edit Combo

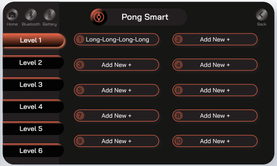
Select "Edit Combo" to adjust or revise the settings for this drill if needed

⑥ 黑橙组合


主页
蓝牙
电池
黑橙组合
返回
初级计划 1
初级计划 2
中级计划 1
中级计划 2
高级计划 1
高级计划 2
1 近-远-中-远-中
2 添加 +
3 添加 +
4 添加 +
5 添加 +
6 添加 +
7 添加 +
8 添加 +
9 添加 +
10 添加 +

支持最大 60 组黑橙组合

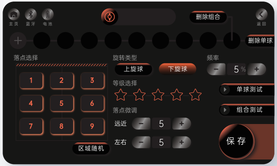
Pong Smart

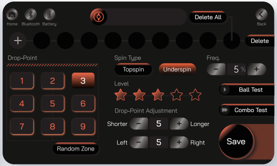

Home
Bluetooth
Battery
Pong Smart
Back
Level 1
Level 2
Level 3
Level 4
Level 5
Level 6
1 Long-Long-Long-Long
2 Add New +
3 Add New +
4 Add New +
5 Add New +
6 Add New +
7 Add New +
8 Add New +
9 Add New +
10 Add New +

Supports a maximum of 60 sets of Pong Smart drills

6.1 添加黑橙组合

Create New Pong Smart Drills


主页
蓝牙
电池
删除组合
返回
删除单球
落点选择
1
2
3
4
5
6
7
8
9
区域随机
旋转类型
上旋球
下旋球
频率
5 %
等级选择
单球测试
组合测试
落点微调
远近 5
左右 5
保 存

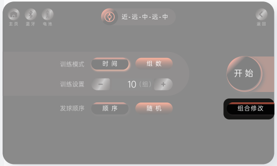

Home
Bluetooth
Battery
Delete All
Back
Delete
Drop-Point
1
2
3
4
5
6
7
8
9
Random Zone
Spin Type
Topspin
Underspin
Freq.
5 %
Level
Ball Test
Combo Test
Drop-Point Adjustment
Shorter 5 Longer
Left 5 Right
Save

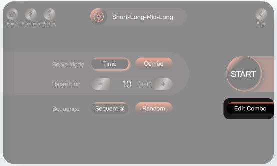
- 于自编组合列表页点击“添加 + ”后，进入此界面
- 可对单球参数进行调整
- 点击 “保存” 新添加组合后，进入发球设置，点击“开始”即可体验新增组合

- To create a new customized drill select "Add New +"
- Here you may customize each and every single ball within this drill according to need
- Click "Save", then you may find this drill on your list of customized drills

6.2 组合修改

Adjust Pong Smart Drill Settings


主页
蓝牙
电池
近 - 远 - 中 - 远 - 中
返回
训练模式
时 间
组 数
训练设置
10（组）
发球顺序
顺 序
随 机
开 始
组合修改

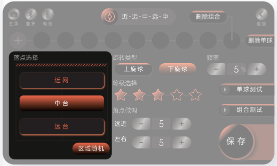

Home
Bluetooth
Battery
Short-Long-Mid-Long
Back
Serve Mode
Time
Combo
Repetition
10 (set)
Sequence
Sequential
Random
START
Edit Combo

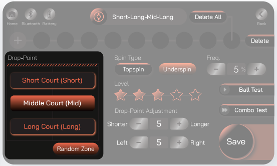
进入发球设置界面后，点击 “组合修改”即可编辑或修改当前组合

Select "Edit Combo" to adjust or revise the settings for this drill if needed

6.1.1 区域随机

Random Zone


主页
蓝牙
电池
近 - 远 - 中 - 远 - 中
删除组合
返回
删除单球
落点选择
近 网
中 台
远 台
区域随机
旋转类型
上旋球
下旋球
频率
5 %
等级选择
单球测试
组合测试
落点微调
远近 5
左右 5
保 存

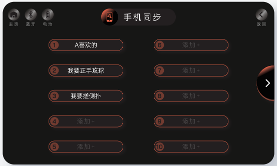

Home
Bluetooth
Battery
Short-Long-Mid-Long
Delete All
Back
Delete
Drop-Point
Short Court (Short)
Middle Court (Mid)
Long Court (Long)
Random Zone
Spin Type
Topspin
Underspin
Freq.
5 %
Level
Ball Test
Combo Test
Drop-Point Adjustment
Shorter 5 Longer
Left 5 Right
Save

点击选择 “区域随机” 后，可设置近台、中台或远台的一个随机落点球

Select "Random Zone", choose among short, middle or long court, then a random ball is set up within the chosen court area

⑦ 手机同步 APP Sync

(Currently this feature is only available in China)

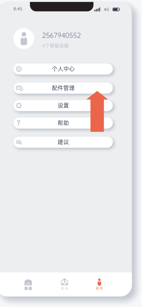

主页
蓝牙
电池
手机同步
返回
① A喜欢的
② 我要正手攻球
③ 我要搓侧扑
④ 添加+
⑤ 添加+
⑥ 添加+
⑦ 添加+
⑧ 添加+
⑨ 添加+
⑩ 添加+

手机 APP 同步的自定义组合，最大支持 20 组

Supports a maximum of 20 sets of synchronized drills from APP

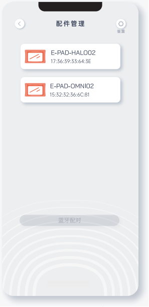
版本升级：由手机 APP 操作完成（目前仅限中国大陆地区使用）

OTA Upgrade Through APP (Currently APP and related services are only available in China)


8:45
4G
2567940552
4个智能设备
个人中心
配件管理
设置
帮助
建议
我的

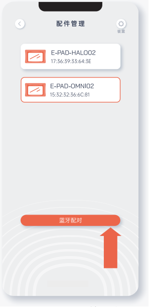
1 于"我的"列表页点击进入配件管理

Select and enter "Accessories"


配件管理
E-PAD-HALO02
17:36:39:33:64:3E
E-PAD-OMNI02
15:32:32:36:6C:81
蓝牙配对

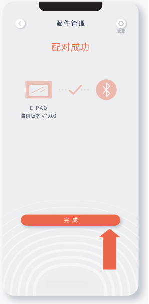
2 选择需要升级的设备

Select your device


配件管理
E-PAD-HALO02
17:36:39:33:64:3E
E-PAD-OMNI02
15:32:32:36:6C:81
蓝牙配对

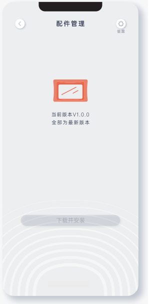
3 选中需要升级的设备后点击 "蓝牙配对"

Click "Connect to Bluetooth"


配件管理
配对成功
E-PAD
当前版本 V 1.0.0
完 成

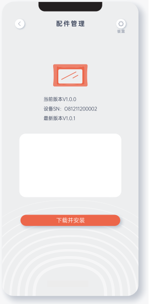
4 配对成功后点击完成

Click "Complete" once the device is successfully connected


配件管理
当前版本V1.0.0
全部为最新版本
下载并安装

5 若您的配件版本已为最新版本，无需升级

If your device is already in the most recent version, then upgrade won't be needed


配件管理
当前版本V1.0.0
设备SN：O81211200002
最新版本V1.0.1
下载并安装

5.1 若检测到新版本，点击"下载并安装"进行升级

If a newer version is detected, select "Download and Install" to upgrade

Warranty Card

Pongbot®Smart Table Tennis Serving Robot

Customer Info

Name: ______________

Address: ______________

Phone: ______________

Postal Code : ______________

E-Mail: ______________

Product Info

Model: ______________

SN: ______________

Origin: ______________

Service: 400-190-6688

Retailer Info

Name: ______________

Address: ______________

Phone: ______________

Postal Code : ______________

Invoice #: ______________

Date of Sale: ______________

Retailer Stamp :

Notice:

- Pongbot®Smart Touch Screen E-PAD strictly follows and executes national warranty regulations. Pongbot values and respects consumers' rights, we solemnly promise to provide post-sales services, maintenance, exchanges and returns under national regulations.
- Below-mentioned situations are not included in warranty:

1. Human factors and abnormalities that cause damage to the device (ex. harmful power source, foreign matter enters the device, poor transportation by customers, etc.)
2. Disassemble and maintenance behavior by non-appointed personnel that causes damage
3. Performance index and technical parameters meet the standards of product design and regulations
4. Forced device operation when parts have been damaged or aged
5. Use of non-original accessories (not manufactured by Pongbot) that causes error or damage
6. Unavoidable factors that cause device damage, including natural disasters, such as earthquake, flood, fire, etc.
7. Products that exceed warranty periods

三包凭证

庞伯特® E 触控蓝牙智能屏

用户信息

姓名: ______________

地址: ______________

电话: ______________

邮政编码 : ______________

邮箱: ______________

产品信息

型号: ______________

SN: ______________

产地: ______________

服务热线: 400-190-6688

销售商信息

姓名: ______________

地址: ______________

电话: ______________

邮政编码 : ______________

发货票号: ______________

销售日期 : ______________

销售商印章 :

备注:

- 庞伯特®E 触控蓝牙智能屏严格执行国家三包法，遵守行业准则，并充分尊重消费者权益，为消费者提供全方位服务保障和郑重承诺，对国家规定或者与消费者约定包修、包换、包退的商品，创屹科技承诺负责修理、更换或者退货
- 以下情况不属于三包范围:

1. 人为因素和非正常原因(不良的电源环境、异物进入设备、客户不良运输等)造成设备的损坏
2. 非创屹科技指定服务人员所拆解、维修等行为造成设备的损坏
3. 性能指标或技术参数达到产品设计及说明标准的
4. 在零部件发生老化或损坏的情况下强制运行造成设备的损坏
5. 使用非创屹科技原厂配件造成设备的故障或损坏
6. 不可抗因素造成设备损坏，如地震、洪水、火灾等自然灾害
7. 已超过保修期的产品